

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site H32 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner MORRISON State WA Sampling Point K4
 Investigator(s) Emyers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>/</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>/</u>	
Wetland Hydrology Present?	Yes _____ No <u>/</u>	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>25%</u> (A/B)
4 _____				
				<u> </u> = Total Cover
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>L. VULGARE</u>	<u>60</u>	<u>X</u>	<u>UPL</u>	Dominance Test is >50%
2 <u>P. lanceolata</u>	<u>60</u>	<u>X</u>	<u>FACW</u>	Prevalence Index is ≤3.0
3 <u>H. radicata</u>	<u>30</u>	<u>X</u>	<u>FAC</u>	'Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
4 <u>D. carota</u>	<u>25</u>	<u>X</u>	<u>UPL</u>	Welland Non-Vascular Plants
5 <u>Rhinanthus crista-galli</u>	<u>5</u>		<u>FACU</u>	Problematic Hydrophytic Vegetation (Explain)
6 <u>Barunculus spp</u>	<u>5</u>		<u>FACW</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 <u>Trifolium spp</u>	<u>5</u>		<u>FAC</u>	
8 _____				
9 _____				
10 _____				
11 _____				
				<u> </u> = Total Cover
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				<u> </u> = Total Cover
% Bare Ground in Herb Stratum <u>5%</u>				
Remarks				

h4

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils²:

☐ 2 cm Muck (A10)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Type _____
Depth (inches) _____

Hydric Soil Present? Yes _____ No ☒

HYDROLOGY

Primary Indicators (minimum of one required, check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Moulson State WA Sampling Point HS
 Investigator(s) Smiley Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) LRBA Lat _____ Long _____ Datum _____
 Soil Map Unit Name (4) NWI classification _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes K No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No K
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>/</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>K</u>
Hydric Soil Present?	Yes _____ No <u>/</u>	
Wetland Hydrology Present?	Yes _____ No <u>/</u>	
Remarks _____		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC	<u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata	<u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC	<u>0.1</u> (A/B)
4 _____					
				= Total Cover	
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:	
1 _____				Total % Cover of	Multiply by
2 _____				OBL species	x 1 = _____
3 _____				FACW species	x 2 = _____
4 _____				FAC species	x 3 = _____
5 _____				FACU species	x 4 = _____
				UPL species	x 5 = _____
				Column Totals	(A) _____ (B) _____
				Prevalence Index = B/A = _____	
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:	
1 <u>Dactylis glomerata</u>	<u>25</u>	<u>x</u>	<u>FACU</u>	Dominance Test is >50%	
2 <u>L. vulgare</u>	<u>25</u>	<u>x</u>	<u>UPL</u>	Prevalence Index is ≤3.0	
3 <u>P. lanceolata</u>	<u>25</u>	<u>x</u>	<u>FACU</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
4 <u>P. carota</u>	<u>35</u>	<u>x</u>	<u>UPL</u>	Wetland Non-Vascular Plants	
5 <u>Phleum pratense</u>	<u>10</u>		<u>FACU</u>	Problematic Hydrophytic Vegetation (Explain)	
6 <u>Holcus lanatus</u>	<u>15</u>		<u>FAC</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
7 <u>Ranunculus spp</u>	<u>5</u>		<u>FACW</u>		
8 <u>Trifolium spp</u>	<u>5</u>		<u>FAC</u>		
9 _____					
10 _____					
11 _____					
				= Total Cover	
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>K</u>	
1 _____					
2 _____					
				= Total Cover	
% Bare Ground in Herb Stratum: _____					
Remarks _____					

Sampling Point: 55

HYDROLOGY

Primary Indicators (minimum of one required, check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (LRR A)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches): 15"

Saturation Present? Yes ☐ No ☐ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point KC
 Investigator(s) Smijers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC. <u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>0.1</u> (A/B)
4 _____				
				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size _____)				Total % Cover of _____ Multiply by _____
1 _____				OBL species _____ x 1 = _____
2 _____				FACW species _____ x 2 = _____
3 _____				FAC species _____ x 3 = _____
4 _____				FACU species _____ x 4 = _____
5 _____				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
Herb Stratum (Plot size _____)				Prevalence Index = B/A = _____
1 <u>D. glomerata</u>	<u>25</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 <u>L. vulgare</u>	<u>25</u>	<u>X</u>	<u>UPL</u>	
3 <u>Plantago lanceolata</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	
4 <u>D. carota</u>	<u>25</u>	<u>X</u>	<u>UPL</u>	
5 <u>Phleum pratense</u>	<u>10</u>		<u>FACU</u>	
6 <u>Ranunculus spp</u>	<u>10</u>		<u>FACU</u>	
7 <u>Holcus lanatus</u>	<u>10</u>		<u>FAC</u>	
8 <u>Trifolium spp</u>	<u>5</u>		<u>FAC</u>	
9 <u>Trifolium officinale</u>	<u>5</u>		<u>FACU</u>	
10 _____				
11 _____				
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
% Bare Ground in Herb Stratum <u>10%</u>				
Remarks				

SOIL

Sampling Point: B16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Lpc ²		
0-13	10YR 4/14		10YR 1.					
>14	10YR 5/3		10YR 4/6 15.					

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): 17"Saturation Present? Yes _____ No _____ Depth (inches): _____
(includes capillary fringe)Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3-19-10
 Applicant/Owner Morrison State WA Sampling Point BT
 Investigator(s) Myers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A) Total Number of Dominant Species Across All Strata <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC <u>0.1</u> (A/B)														
1																		
2																		
3																		
4																		
				Prevalence Index worksheet: <table border="1"> <tr> <th>Total % Cover of</th> <th>Multiply by</th> </tr> <tr> <td>OBL species</td> <td>x 1 =</td> </tr> <tr> <td>FACW species</td> <td>x 2 =</td> </tr> <tr> <td>FAC species</td> <td>x 3 =</td> </tr> <tr> <td>FACU species</td> <td>x 4 =</td> </tr> <tr> <td>UPL species</td> <td>x 5 =</td> </tr> <tr> <td>Column Totals</td> <td>(A) _____ (B) _____</td> </tr> </table> Prevalence Index = B/A = _____	Total % Cover of	Multiply by	OBL species	x 1 =	FACW species	x 2 =	FAC species	x 3 =	FACU species	x 4 =	UPL species	x 5 =	Column Totals	(A) _____ (B) _____
Total % Cover of	Multiply by																	
OBL species	x 1 =																	
FACW species	x 2 =																	
FAC species	x 3 =																	
FACU species	x 4 =																	
UPL species	x 5 =																	
Column Totals	(A) _____ (B) _____																	
= Total Cover																		
Sapling/Shrub Stratum (Plot size _____)																		
1																		
2																		
3																		
4																		
5																		
= Total Cover																		
Herb Stratum (Plot size _____)																		
1 <u>D. carota</u>	<u>50</u>	<u>X</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: — Dominance Test is >50% — Prevalence Index is ≥ 0.1 — 'Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) — Wetland Non-Vascular Plants — Problematic Hydrophytic Vegetation (Explain) 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.'														
2 <u>L. vulgare</u>	<u>30</u>	<u>X</u>	<u>UPL</u>															
3 <u>D. glomerata</u>	<u>40</u>	<u>X</u>	<u>FACU</u>															
4 <u>T. officinale</u>	<u>5</u>		<u>FACU</u>															
5 <u>Trifolium spp</u>	<u>5</u>		<u>FAC</u>															
6 <u>Ranunculus spp</u>	<u>5</u>		<u>FACU</u>															
7 <u>H. lanatus</u>	<u>5</u>		<u>FAC</u>															
8 <u>P. pratense</u>	<u>5</u>		<u>FACU</u>															
9																		
10																		
11																		
= Total Cover																		
Woody Vine Stratum (Plot size _____)																		
1																		
2																		
= Total Cover																		
% Bare Ground in Herb Stratum _____																		
Remarks																		

SOIL

Sampling Point: 57

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-10	10YR 3/3		10YR 1/6	3:1				
10-15	10YR 3/2		10YR 5/3	2:1				
>16	10YR 5/3		10YR 1/6	20:1				
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils ³ :		
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> 2 cm Muck (A10)		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Red Parent Material (TF2)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)					
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Depleted Matrix (F3)					
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Redox Dark Surface (F6)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Depleted Dark Surface (F7)					
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Redox Depressions (F8)					
Restrictive Layer (if present):								
Type _____								
Depth (inches): _____						Hydric Soil Present? Yes <u>X</u> No _____		
Remarks								

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required, check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present? Yes _____ No _____	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>	
Water Table Present? Yes _____ No <u>X</u>	Depth (inches): <u>20"</u>		
Saturation Present? Yes _____ No _____	Depth (inches): _____		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.			
Remarks			

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A2Z City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Moulson State WA Sampling Point K8
 Investigator(s) Smyers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>25%</u> (A/B)
4 _____				
				<u> </u> = Total Cover
Sapling/Shrub Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1 <u>E. glomerata</u>	<u>80</u>	<u>X</u>	<u>FACU</u>	Dominance Test is >50%
2 <u>Plantago lanceolata</u>	<u>40</u>	<u>X</u>	<u>FACU</u>	Prevalence Index is ≥ 0.1
3 <u>Vicia hirsuta</u>	<u>60</u>	<u>X</u>	<u>UPL</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
4 <u>Sanicula spp</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	Wetland Non-Vascular Plants
5 <u>Trifolium spp</u>	<u>15</u>		<u>FAC</u>	Problematic Hydrophytic Vegetation (Explain)
6 <u>D. carota</u>	<u>15</u>		<u>UPL</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 <u>Hypochaeris radicata</u>	<u>5</u>		<u>FAC</u>	
8 _____				
9 _____				
10 _____				
11 _____				
				<u> </u> = Total Cover
Woody Vine Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				<u> </u> = Total Cover
% Bare Ground in Herb Stratum <u>5%</u>				
Remarks				

SOIL

Sampling Point: KS

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-12	10YR 4/4		10YR 4/6	3%				
			10YR 5/6	3%				
>12	10YR 6/3		10YR 5/6	30%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required, check all that apply)				
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)		
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)		
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)		
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)		
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)		
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)		
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)				
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)				

Field Observations:

Surface Water Present?	Yes _____ No _____	Depth (inches): _____	Wetland Hydrology Present? Yes <u>X</u> No _____
Water Table Present?	Yes <u>X</u> No _____	Depth (inches): <u>9</u>	
Saturation Present? (includes capillary fringe)	Yes <u>X</u> No _____	Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A2Z City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point 159
 Investigator(s) Smiley Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC. <u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>3</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>0.1</u> (A/B)
4 _____				
				<u> </u> = Total Cover
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>Leucanthemum vulgare</u>	<u>20</u>	<u>X</u>	<u>UPL</u>	___ Dominance Test is >50%
2 <u>Daucylis glomerata</u>	<u>25</u>	<u>X</u>	<u>FACU</u>	___ Prevalence Index is <3.0
3 <u>DAUCUS CAROTA</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	___ 'Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
4 <u>Trifolium spp</u>	<u>15</u>		<u>FAC</u>	___ Wetland Non-Vascular Plants
5 <u>Ranunculus acris</u>	<u>10</u>		<u>FACU</u>	___ Problematic Hydrophytic Vegetation (Explain)
6 _____				___ indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
				<u> </u> = Total Cover
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				<u> </u> = Total Cover
% Bare Ground in Herb Stratum <u>5%</u>				
Remarks				

SOIL

Sampling Point

K9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-14	10YR 3/4	100%						
7/4	10YR 3/4	100%	4/4	20%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ☒

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C8) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes ☒ No _____ Depth (inches): _____Water Table Present? Yes ☒ No _____ Depth (inches): 12Saturation Present? Yes ☒ No _____ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A2Z City/County Clallam Sampling Date 3.19.10
 Applicant/Owner MORRISON State WA Sampling Point K10
 Investigator(s) R. Myers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) LARA Lat _____ Long _____ Datum _____
 Soil Map Unit Name (4) NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC. <u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>3</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC. <u>0.1</u> (A/B)
4 _____				
				= Total Cover
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>Leucanthemum vulgare</u>	<u>60</u>	<u>X</u>	<u>U</u>	Dominance Test is >50% _____
2 <u>Dactylis glomerata</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	Prevalence Index is ≤ 30% _____
3 <u>Daucus carota</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) _____
4 <u>Taraxacum officinale</u>	<u>10</u>		<u>FACU</u>	Wetland Non-Vascular Plants _____
5 <u>Plantago lanceolata</u>	<u>5</u>		<u>FACU</u>	Problematic Hydrophytic Vegetation (Explain) _____
6 _____				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
				= Total Cover
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				= Total Cover
% Bare Ground in Herb Stratum <u>51</u>				
Remarks				

SOIL

Sampling Point h10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-12	10YR 5/3	100%						
12	10YR 5/3	100%	10YR 5/6	30%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____Water Table Present? Yes _____ No X Depth (inches): _____Saturation Present? Yes _____ No X Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A32 City/County Challam Sampling Date 3.19.10
 Applicant/Owner Morrison State RI Sampling Point RII
 Investigator(s) Myers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC. <u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>3</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>0%</u> (A/B)
4 _____				
= Total Cover				
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
= Total Cover				UPL species _____ x 5 = _____
Herb Stratum (Plot size _____)				Column Totals _____ (A) _____ (B)
1 <u>L. vulgare</u>	<u>50</u>	<u>X</u>	<u>UPL</u>	Prevalence Index = B/A = _____
2 <u>D. glomerata</u>	<u>25</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators:
3 <u>D. carota</u>	<u>20</u>	<u>X</u>	<u>UPL</u>	Dominance Test is > 50% _____
4 <u>T. officinale</u>	<u>10</u>		<u>FACU</u>	Prevalence Index is ≤ 30% _____
5 <u>Plantago lanceolata</u>	<u>5</u>		<u>FACU</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____
6 <u>Vicia hirsuta</u>	<u>5</u>		<u>UPL</u>	Wetland Non-Vascular Plants ¹ _____
7 _____				Problematic Hydrophytic Vegetation ¹ (Explain) _____
8 _____				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9 _____				
10 _____				
11 _____				
= Total Cover				
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
= Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks				

SOIL

Sampling Point

K11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-13	10YR 3/3	100%						
7-12	10YR 5/3		10YR 5/6	30%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

- | |
|---|
| <input type="checkbox"/> 2 cm Muck (A10) |
| <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

Saturation Present? Yes _____ No _____ Depth (inches): _____
(includes capillary fringe)Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point 112
 Investigator(s) Smiley Section, Township, Range _____
 Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none) flat Slope (%) 5%
 Subregion (LRR) UKRA Lat _____ Long _____ Datum _____
 Soil Map Unit Name (45) NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks _____		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>2</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>0%</u> (A/B)
4 _____				
				<u> </u> = Total Cover
Sapling/Shrub Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1 _____				Total % Cover of: OBL species x 1 = _____
2 _____				FACW species <u>10</u> x 2 = <u>20</u>
3 _____				FAC species <u>25</u> x 3 = <u>75</u>
4 _____				FACU species <u>60</u> x 4 = <u>240</u>
5 _____				UPL species _____ x 5 = _____
				Column Totals <u>95</u> (A) <u>335</u> (B)
				Prevalence Index = B/A = <u>3.5</u>
Herb Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1 <u>Dactylis glomerata</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	Dominance Test is >50% _____
2 <u>PAUCUS CAROTA</u>	<u>30</u>	<u>X</u>	<u>FACW</u>	Prevalence Index is ≤3.0 _____
3 <u>HYPOCHAERIS RADICATA</u>	<u>15</u>		<u>FAC</u>	'Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) _____
4 <u>TRIFOLIUM SPP</u>	<u>10</u>		<u>FAC</u>	Wetland Non-Vascular Plants _____
5 <u>ANEMONE SPP</u>	<u>10</u>		<u>FACW</u>	Problematic Hydrophytic Vegetation (Explain) _____
6 _____				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
				<u>95</u> = Total Cover
Woody Vine Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				<u> </u> = Total Cover
% Bare Ground in Herb Stratum _____				
Remarks _____				

SOIL

Sampling Point: K12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features			Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%					
0-12	10YR 5/3	100%							
12	10YR 5/3		10YR 4/6	20%					
			10YR 5/6	10%					

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (If present):

Type _____

Depth (inches) _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes _____ No _____	Depth (inches) _____	Wetland Hydrology Present? Yes <u>X</u> No _____
Water Table Present? Yes _____ No <u>X</u>	Depth (inches) <u>13</u>	
Saturation Present? Yes <u>X</u> No _____	Depth (inches) <u>11</u>	

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner MORRISON State WA Sampling Point K13
 Investigator(s) W. Myers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) LARA Lat _____ Long _____ Datum _____
 Soil Map Unit Name (4) NWI classification _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC _____ (A) Total Number of Dominant Species Across All Strata _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC <u>0.1</u> (A/B)
1 _____				
2 _____				
3 _____				
4 _____				
5 _____				
= Total Cover				
Sapling/Shrub Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1 _____				
2 _____				
3 _____				
4 _____				
5 _____				
= Total Cover				
Herb Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1 <u>Taxillus glomerata</u>	<u>40</u>	<u>X</u>	<u>FACU</u>	
2 <u>D. CALOTA</u>	<u>30</u>	<u>X</u>	<u>UPL</u>	
3 <u>Banunculus spp</u>	<u>25</u>	<u>X</u>	<u>FACW</u>	
4 <u>Trifolium spp</u>	<u>10</u>		<u>FAC</u>	
5 <u>P. lanceolata</u>	<u>10</u>		<u>FACU</u>	
6 _____				
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
= Total Cover				
Woody Vine Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1 _____				
2 _____				
= Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

SOIL

Sampling Point: K13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-13	10YR 3/3	100%						
213	10YR 5/2		10YR 4/6	15%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (2 or more required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes X No _____ Depth (inches): 2Saturation Present? Yes X No _____ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point K14
 Investigator(s) Knights Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) UREA Lat _____ Long _____ Datum _____
 Soil Map Unit Name (4) NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>25%</u> (A/B)
4 _____				
				<u> </u> = Total Cover
Sapling/Shrub Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species <u>30</u> x 3 = <u>90</u>
5 _____				FACU species <u>50</u> x 4 = <u>200</u>
				UPL species <u>60</u> x 5 = <u>300</u>
				Column Totals <u>140</u> (A) <u>390</u> (B)
				Prevalence Index = B/A = <u>7.3</u>
Herb Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1 <u>Najas lamellata</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	Dominance Test is > 50%
2 <u>Leucanthemum vulgare</u>	<u>20</u>	<u>X</u>	<u>UPL</u>	Prevalence Index is > 3.0
3 <u>D. carota</u>	<u>40</u>	<u>X</u>	<u>UPL</u>	'Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
4 <u>Trifolium spp</u>	<u>20</u>	<u>X</u>	<u>FAC</u>	Wetland Non-Vascular Plants
5 <u>I. glomerata</u>	<u>10</u>		<u>FACU</u>	Problematic Hydrophytic Vegetation (Explain)
6 <u>Taraxacum officinale</u>	<u>10</u>		<u>FACU</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 <u>Hypochaeris radicata</u>	<u>10</u>		<u>FAC</u>	
8 _____				
9 _____				
10 _____				
11 _____				
				<u>140</u> = Total Cover
Woody Vine Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				<u> </u> = Total Cover
% Bare Ground in Herb Stratum _____				
Remarks				

SOIL

Sampling Point: K14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-8	10YR 5/3	100%						
7-8	10YR 5/2		10YR 4/6	7%				
			10YR 5/4	10%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

Secondary Indicators (2 or more required)

<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): 14

Water Table Present? Yes ☐ No ☒ Depth (inches): 14

Saturation Present? Yes ☒ No ☐ Depth (inches): 11

(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site ABZ City/County Challam Sampling Date 3.19.10
 Applicant/Owner MURKINSON State KS Sampling Point K15
 Investigator(s) KMUELLER Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>25%</u> (A/B)
4 _____				
				= Total Cover
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>Leucanthemum vulgare</u>	<u>40</u>	<u>X</u>	<u>UPL</u>	Dominance Test is >50% _____
2 <u>Daucus carota</u>	<u>40</u>	<u>X</u>	<u>UPL</u>	Prevalence Index is ≥ 3.0' _____
3 <u>D. glomerata</u>	<u>25</u>	<u>X</u>	<u>FACU</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) _____
4 <u>Trifolium spp</u>	<u>30</u>	<u>X</u>	<u>FAC</u>	Wetland Non-Vascular Plants _____
5 <u>Taraxacum officinale</u>	<u>15</u>		<u>FACU</u>	Problematic Hydrophytic Vegetation (Explain) _____
6 <u>Hypochaeris radicata</u>	<u>15</u>		<u>FAC</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic _____
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
				= Total Cover <u>155</u>
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				= Total Cover _____
% Bare Ground in Herb Stratum _____				
Remarks				

SOIL

Sampling Point

K15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR5/3	100%						
>14	10YR5/2		10YR4/6	25%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes _____ No _____	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
Water Table Present? Yes _____ No <u>X</u>	Depth (inches): <u>22"</u>	
Saturation Present? Yes _____ No <u>X</u>	Depth (inches): _____	

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Challam Sampling Date 3.19.10
 Applicant/Owner MORRISON State _____ Sampling Point Rile
 Investigator(s) Myers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>_____</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>_____</u> No <u>X</u>
Hydric Soil Present?	Yes <u>_____</u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>_____</u>		
Remarks			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>_____</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A)
2				Total Number of Dominant Species Across All Strata <u>3</u> (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC <u>_____</u> (A/B)
4				
				= Total Cover
Sapling/Shrub Stratum (Plot size <u>_____</u>)				Prevalence Index worksheet:
1				Total % Cover of <u>_____</u> Multiply by <u>_____</u>
2				OBL species <u>15</u> x 1 = <u>30</u>
3				FACW species <u>20</u> x 2 = <u>60</u>
4				FAC species <u>20</u> x 3 = <u>60</u>
5				FACU species <u>70</u> x 4 = <u>280</u>
				UPL species <u>20</u> x 5 = <u>100</u>
				Column Totals <u>125</u> (A) <u>470</u> (B)
				Prevalence Index = B/A = <u>3.7</u>
Herb Stratum (Plot size <u>_____</u>)				Hydrophytic Vegetation Indicators:
1	<u>50</u>	<u>X</u>	<u>FACW</u>	— Dominance Test is >50%
2	<u>20</u>	<u>X</u>	<u>FACW</u>	— Prevalence Index is ≥ 3.0
3	<u>20</u>	<u>X</u>	<u>UPL</u>	— "Morphological Adaptations" (Provide supporting data in Remarks or on a separate sheet)
4	<u>15</u>		<u>FACW</u>	— Wetland Non-Vascular Plants
5	<u>10</u>		<u>FAC</u>	— Problematic Hydrophytic Vegetation (Explain)
6	<u>10</u>		<u>FAC</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7				
8				
9				
10				
11				
				<u>125</u> Total Cover
Woody Vine Stratum (Plot size <u>_____</u>)				Hydrophytic Vegetation Present? Yes <u>_____</u> No <u>X</u>
1				
2				
				= Total Cover
% Bare Ground in Herb Stratum <u>_____</u>				
Remarks				

SOIL

Sampling Point: K16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-12	10YR 3/3	100%						
12	10YR 5/3		10YR 5/6	10%				
			10YR 4/6	3%				
			10YR 3/2	1%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type _____

Depth (inches) _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Secondary Indicators (2 or more required)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Raised Ani Mounds (D6) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes X No _____ Depth (inches): 10

Saturation Present? Yes X No _____ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A2Z City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point KIT
 Investigator(s) Ameyers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No _____
Hydric Soil Present?	Yes _____ No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No _____		
Remarks			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>23</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>33%</u> (A/B)
4 _____				
				= Total Cover
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species <u>15</u> x 2 = <u>30</u>
4 _____				FAC species <u>40</u> x 3 = <u>120</u>
5 _____				FACU species <u>55</u> x 4 = <u>220</u>
				UPL species <u>20</u> x 5 = <u>100</u>
				Column Totals <u>125</u> (A) <u>530</u> (B)
				Prevalence Index = B/A = <u>73.0</u>
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>Dactylis glomerata</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	— Dominance Test is >50%
2 <u>Festuca rubra</u>	<u>20</u>	<u>X</u>	<u>FAC</u>	— Prevalence Index is >3.0
3 <u>Leucanthemum vulgare</u>	<u>25</u>	<u>X</u>	<u>UPL</u>	— 'Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
4 <u>Ranunculus spp</u>	<u>15</u>		<u>FACW</u>	— Wetland Non-Vascular Plants
5 <u>Taraxacum officinale</u>	<u>10</u>		<u>FACU</u>	— Problematic Hydrophytic Vegetation (Explain)
6 <u>Holcus lanatus</u>	<u>15</u>		<u>FAC</u>	— Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 <u>Vicia hirsuta</u>	<u>5</u>		<u>UPL</u>	
8 _____				
9 _____				
10 _____				
11 _____				
				= Total Cover <u>125</u>
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				= Total Cover
% Bare Ground in Herb Stratum _____				
Remarks				

SOIL

Sampling Point: K17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-13	10YR4/4		10YR5/6	1%				
>13	10YR6/2		10YR4/6	30%				
			10YR5/3	7%				

¹Type. C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location. PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No K

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present?	Yes _____ No _____	Depth (inches): _____	Wetland Hydrology Present? Yes <u>X</u> No _____
Water Table Present?	Yes <u>X</u> No _____	Depth (inches): <u>10</u>	
Saturation Present?	Yes <u>X</u> No _____	Depth (inches): _____	

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner MORRISON State WA Sampling Point K18
 Investigator(s) M. Myers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A) Total Number of Dominant Species Across All Strata _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC _____ (A/B)														
1																		
2																		
3																		
4																		
				= Total Cover														
Sapling/Shrub Stratum (Plot size _____)																		
1				Prevalence Index worksheet: <table border="0"> <tr> <th>Total % Cover of</th> <th>Multiply by</th> </tr> <tr> <td>OBL species</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals</td> <td>(A) _____ (B) _____</td> </tr> </table> Prevalence Index = B/A = <u>73</u>	Total % Cover of	Multiply by	OBL species	x 1 = _____	FACW species	x 2 = _____	FAC species	x 3 = _____	FACU species	x 4 = _____	UPL species	x 5 = _____	Column Totals	(A) _____ (B) _____
Total % Cover of	Multiply by																	
OBL species	x 1 = _____																	
FACW species	x 2 = _____																	
FAC species	x 3 = _____																	
FACU species	x 4 = _____																	
UPL species	x 5 = _____																	
Column Totals	(A) _____ (B) _____																	
2																		
3																		
4																		
5																		
				= Total Cover														
Herb Stratum (Plot size _____)																		
1 <u>Daucus carota</u>	<u>60</u>	<u>X</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤ 30 _____ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) _____ Wetland Non-Vascular Plants _____ Problematic Hydrophytic Vegetation (Explain) _____ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic														
2 <u>Dactylis glomerata</u>	<u>20</u>	<u>X</u>	<u>FACU</u>															
3 <u>Leucanthemum vulgare</u>	<u>20</u>	<u>X</u>	<u>UPL</u>															
4 <u>Ranunculus lanceolatus</u>	<u>15</u>		<u>FACU</u>															
5 <u>T. officinale</u>	<u>10</u>		<u>FACU</u>															
6 <u>Ranunculus spp</u>	<u>10</u>		<u>FACU</u>															
7 <u>Trifolium spp</u>	<u>10</u>		<u>FAC</u>															
8 <u>Vicia hirsuta</u>	<u>5</u>		<u>UPL</u>															
9																		
10																		
11																		
				= Total Cover														
Woody Vine Stratum (Plot size _____)																		
1				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>														
2																		
				= Total Cover														
% Bare Ground in Herb Stratum <u>15.1</u>																		
Remarks																		

SOIL

Sampling Point: K18

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features			Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹			
0-11	10YR3/3	100%						
>11	10YR5/2		10YR6/6	40%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils ³ : <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
--	---	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes _____ No _____	Depth (inches): _____
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches): <u>15</u>
Saturation Present?	Yes _____ No _____	Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site AZZ City/County Clallam Sampling Date 3.9.10
 Applicant/Owner Morrison State WA Sampling Point KA
 Investigator(s) Amyers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>25%</u> (A/B)
4 _____				
				Prevalence Index worksheet:
= Total Cover				Total % Cover of _____ Multiply by _____
Sapling/Shrub Stratum (Plot size _____)				OBL species _____ x 1 = _____
1 _____				FACW species <u>10</u> x 2 = _____
2 _____				FAC species <u>30</u> x 3 = _____
3 _____				FACU species <u>40</u> x 4 = _____
4 _____				UPL species <u>140</u> x 5 = _____
5 _____				Column Totals _____ (A) _____ (B)
= Total Cover				Prevalence Index = B/A = <u>73</u>
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>Leucanthemum vulgare</u>	<u>60</u>	<u>X</u>	<u>UPL</u>	___ Dominance Test is >50%
2 <u>Daucus carota</u>	<u>60</u>	<u>X</u>	<u>UPL</u>	___ Prevalence Index is ≥ 30'
3 <u>P. lanceolata</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	___ Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
4 <u>Hypochaeris radicata</u>	<u>20</u>	<u>X</u>	<u>FAC</u>	___ Wetland Non-Vascular Plants
5 <u>Lilium hirsutum</u>	<u>20</u>	<u>X</u>	<u>UPL</u>	___ Problematic Hydrophytic Vegetation' (Explain)
6 <u>Trifolium spp</u>	<u>10</u>		<u>FAC</u>	___ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7 <u>Prunellus spp</u>	<u>10</u>		<u>FACU</u>	
8 <u>Thalictrum officinale</u>	<u>10</u>		<u>FACU</u>	
9 _____				
10 _____				
11 _____				
<u>220</u> = Total Cover				
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
= Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks				

SOIL

Sampling Point KP9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-13	10YR 5/2+	100%						
>13	10YR 5/3		10YR 5/6	15%				
			10YR 4/6	10%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks w/ that greenish sheen

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Secondary Indicators (2 or more required)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Raised Anl Mounds (D6) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present?	Yes _____ No <u>X</u>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches): _____	
Saturation Present?	Yes _____ No <u>X</u>	Depth (inches): _____	

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site P22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point K20
 Investigator(s) Armstrong Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Remarks

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC	<u>2</u> (A)
2 _____				Total Number of Dominant Species Across All Strata	<u>3</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC	<u>66.7%</u> (A/B)
4 _____				= Total Cover	
Sapling/Shrub Stratum (Plot size _____)					
1 _____				Prevalence Index worksheet:	
2 _____				Total % Cover of	Multiply by
3 _____				OBL species	x 1 = <u>20</u>
4 _____				FACW species	x 2 = <u>20</u>
5 _____				FAC species	x 3 = <u>210</u>
				FACU species	x 4 = <u>100</u>
				UPL species	x 5 = <u>125</u>
				Column Totals	<u>130</u> (A) <u>455</u> (B)
				Prevalence Index = B/A = <u>3.5</u>	
Herb Stratum (Plot size _____)					
1 <u>Festuca rubra</u>	<u>30</u>	<u>X</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators:	
2 <u>D. glomerata</u>	<u>25</u>	<u>X</u>	<u>FACW</u>	<u>X</u> Dominance Test is >50%	
3 <u>Trifolium spp</u>	<u>10</u>		<u>FAC</u>	Prevalence Index is 3.5	
4 <u>Trifolium spp</u>	<u>30</u>	<u>X</u>	<u>FAC</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
5 <u>Lycium hirsutum</u>	<u>15</u>		<u>UPL</u>	Wetland Non-Vascular Plants	
6 <u>Banunculoides spp</u>	<u>10</u>		<u>FACW</u>	Problematic Hydrophytic Vegetation (Explain)	
7 <u>D. carota</u>	<u>10</u>		<u>UPL</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
8 _____					
9 _____					
10 _____					
11 _____					
				= Total Cover	
Woody Vine Stratum (Plot size _____)					
1 _____				Hydrophytic Vegetation Present?	
2 _____				Yes <u>X</u> No _____	
				= Total Cover	
% Bare Ground in Herb Stratum _____					
Remarks					

SOIL

Sampling Point: 1520

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-15	10YR 4/4		10YR 4/4	15%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type _____

Depth (inches) _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches) _____

Water Table Present? Yes _____ No X Depth (inches) 15

Saturation Present? Yes _____ No X Depth (inches) _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: A02 City/County: Calaveras Sampling Date: 3.19.10
 Applicant/Owner: Morrison State: CA Sampling Point: 101
 Investigator(s): Amey Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____ No <u>V</u>
Hydric Soil Present?	Yes _____ No <u>X</u>		
Wetland Hydrology Present?	Yes _____ No <u>X</u>		
Remarks			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1				
2				
3				
4				
				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>45</u> x 3 = <u>135</u> FACU species <u>35</u> x 4 = <u>140</u> UPL species <u>40</u> x 5 = <u>200</u> Column Totals <u>130</u> (A) <u>555</u> (B) Prevalence Index = B/A = <u>73</u>
= Total Cover				
Sapling/Shrub Stratum (Plot size _____)				
1				
2				
3				
4				
5				
				Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is >3.0 ___ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ___ Wetland Non-Vascular Plants ___ Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
= Total Cover				
Herb Stratum (Plot size _____)				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
= Total Cover				
Woody Vine Stratum (Plot size _____)				
1				
2				
				% Bare Ground in Herb Stratum <u>5%</u>
= Total Cover				
Remarks				

Sampling Point:

h2

[illegible]²Location: PL=Pore Lining, M=Matrix

Indicators for Problematic Hydric Soils:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> 2 cm Muck (A10) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | |

²Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Depth (inches) _____

Hydric Soil Present? Yes _____ No X

Remarks

Wetland Hydrology Indicators:

Secondary Indicators (2 or more required)

- | | | |
|--|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> 1, 2, 4A, and 4B) | <input type="checkbox"/> 4A, and 4B) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Wetland Hydrology Present? Yes No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A32 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Mollison State WA Sampling Point K22
 Investigator(s) Amyers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ☒
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No ☒
 Hydric Soil Present? Yes _____ No ☒
 Wetland Hydrology Present? Yes _____ No ☒

Is the Sampled Area
within a Wetland? Yes _____ No ☒

Remarks

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status
1 _____			
2 _____			
3 _____			
4 _____			
= Total Cover			

Sapling/Shrub Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status
1 _____			
2 _____			
3 _____			
4 _____			
5 _____			
= Total Cover			

Herb Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status
1 <u>P. lanceolata</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FACU</u>
2 <u>L. vulgare</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>UPL</u>
3 <u>E. rubra</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
4 <u>Trifolium spp</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
5 <u>D. glomerata</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FACU</u>
6 <u>H. radicata</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
7 _____			
8 _____			
9 _____			
10 _____			
11 _____			
= Total Cover			

Woody Vine Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status
1 _____			
2 _____			
= Total Cover			

% Bare Ground in Herb Stratum 10%

Remarks

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC. 1 (A)
 Total Number of Dominant Species Across All Strata 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC. 33% (A/B)

Prevalence Index worksheet:

Total % Cover of	Multiply by
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Dominance Test is >50% _____
 Prevalence Index is ≥ 3.0 _____
 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) _____
 Wetland Non-Vascular Plants _____
 Problematic Hydrophytic Vegetation (Explain) _____
 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic
Vegetation
Present?

Yes _____ No ☒

SOIL

Sampling Point: K22

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-12	10YR 4/4							
12-17	10YR 4/4		10YR 5/4	3%				
			10YR 5/3	1%				
21-27	10YR 5/2		10YR 5/6	20%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): 22

Saturation Present? Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site ADZ City/County Clallam Sampling Date 3.19.10
 Applicant/Owner MORRISON State _____ Sampling Point B23
 Investigator(s) Amyers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>/</u>	Hydic Soil Present? Yes _____ No <u>/</u>	Wetland Hydrology Present? Yes _____ No <u>/</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata _____ (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC _____ (A/B)
4 _____				
				= Total Cover
Sapling/Shrub Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1 <u>L. vulgare</u>	<u>60</u>	<u>X</u>	<u>UPL</u>	___ Dominance Test is >50%
2 <u>D. calceola</u>	<u>40</u>	<u>X</u>	<u>UPL</u>	___ Prevalence Index is ≤3.0 ¹
3 <u>D. alonostachya</u>	<u>30</u>	<u>X</u>	<u>FACW</u>	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4 <u>P. lanceolata</u>	<u>10</u>		<u>FACU</u>	___ Wetland Non-Vascular Plants ¹
5 <u>H. radicata</u>	<u>10</u>		<u>FAC</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)
6 _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
				= Total Cover <u>150</u>
Woody Vine Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
				= Total Cover
% Bare Ground in Herb Stratum <u>10%</u>				
Remarks				

Sampling Point: h23

HYDROLOGY

Western Mountains, Valleys, and Coast – Interim Version

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A27 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Mollison State WA Sampling Point 224
 Investigator(s) Smiley Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>2</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>50%</u> (A/B)
4 _____				
				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size _____)				Total % Cover of
1 _____				OBL species x 1 =
2 _____				FACW species <u>10</u> x 2 = <u>20</u>
3 _____				FAC species <u>20</u> x 3 = <u>60</u>
4 _____				FACU species <u>20</u> x 4 = <u>80</u>
5 _____				UPL species x 5 =
				Column Totals <u>50</u> (A) <u>160</u> (B)
				Prevalence Index = B/A = <u>3.2</u>
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>D. glomerata</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	___ Dominance Test is >50%
2 <u>H. lanatus</u>	<u>20</u>	<u>X</u>	<u>FAC</u>	___ Prevalence Index is >3.0
3 <u>Ranunculus spp</u>	<u>10</u>		<u>FACW</u>	___ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
4 _____				___ Wetland Non-Vascular Plants
5 _____				___ Problematic Hydrophytic Vegetation (Explain)
6 _____				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
Woody Vine Stratum (Plot size _____)				
1 _____				
2 _____				
% Bare Ground in Herb Stratum: <u>5%</u>				
Remarks				

SOIL

Sampling Point

K24

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type	Loc ²		
0-10	10YR4/4							
10-15	10YR4/3		10YR5/2	15%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1) (except MLRA 1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

- ☐ 2 cm Muck (A10)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type _____

Depth (inches) _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
☐ Salt Crust (B11)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Stunted or Stressed Plants (D1) (LRR A)
☐ Other (Explain in Remarks)
- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)
☐ Raised Ant Mounds (D6) (LRR A)
☐ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes X No _____ Depth (inches): _____Water Table Present? Yes X No _____ Depth (inches): 10Saturation Present? Yes X No _____ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner MORRISON State WA Sampling Point hab
 Investigator(s) Bruyer Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>/</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>/</u>	
Wetland Hydrology Present? Yes _____ No <u>/</u>	

Remarks

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>3</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>33.3</u> (A/B)
4 _____				
= Total Cover				
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index worksheet:
1 _____				Total % Cover of _____ Multiply by _____
2 _____				OBL species _____ x 1 = _____
3 _____				FACW species _____ x 2 = _____
4 _____				FAC species _____ x 3 = _____
5 _____				FACU species _____ x 4 = _____
= Total Cover				UPL species _____ x 5 = _____
				Column Totals _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>L. virgata</u>	<u>25</u>	<u>X</u>	<u>UPL</u>	___ Dominance Test is >50%
2 <u>D. glomerata</u>	<u>20</u>	<u>X</u>	<u>FACW</u>	___ Prevalence Index is >3.0
3 <u>E. rubra</u>	<u>30</u>	<u>X</u>	<u>FAC</u>	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4 <u>Trifolium spp</u>	<u>15</u>		<u>FAC</u>	___ Wetland Non-Vascular Plants
5 <u>Ranunculus spp</u>	<u>15</u>		<u>FACW</u>	___ Problematic Hydrophytic Vegetation (Explain)
6 _____				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
<u>95</u> = Total Cover				
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____				
2 _____				
= Total Cover				
% Bare Ground in Herb Stratum _____				

Remarks

SOIL

Sampling Point

425

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR 4/4							
7-12	10YR 5/4		10YR 5/2	17				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1) (except MLRA 1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

- ☐ 2 cm Muck (A10)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ☒

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
☐ Salt Crust (B11)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Stunted or Stressed Plants (D1) (LRR A)
☐ Other (Explain in Remarks)
- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)
☐ Raised Ant Mounds (D6) (LRR A)
☐ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? Yes _____ No _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A22 City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point Bole
 Investigator(s) Smiley Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) (URRA) Lat _____ Long _____ Datum _____
 Soil Map Unit Name Clallam (12) NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>/</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>/</u>	
Welland Hydrology Present? Yes _____ No <u>/</u>	
Remarks	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A)
2 _____				Total Number of Dominant Species Across All Strata _____ (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC _____ (A/B)
4 _____				
				Prevalence index worksheet:
= Total Cover				Total % Cover of _____ Multiply by _____
Sapling/Shrub Stratum (Plot size _____)				OBL species _____ x 1 = _____
1 _____				FACW species _____ x 2 = _____
2 _____				FAC species _____ x 3 = _____
3 _____				FACU species _____ x 4 = _____
4 _____				UPL species _____ x 5 = _____
5 _____				Column Totals _____ (A) _____ (B)
= Total Cover				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>L. vulgaris</u>	<u>20</u>	<u>X</u>	<u>UPL</u>	Dominance Test is >50% _____
2 <u>D. glomerata</u>	<u>10</u>		<u>FACU</u>	Prevalence Index is ≥ 3.0' _____
3 <u>V. hirsuta</u>	<u>10</u>		<u>UPL</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____
4 <u>F. rubra</u>	<u>5</u>		<u>FAC</u>	Wetland Non-Vascular Plants ¹ _____
5 <u>T. officinale</u>	<u>5</u>		<u>FACU</u>	Problematic Hydrophytic Vegetation ¹ (Explain) _____
6 _____				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
7 _____				
8 _____				
9 _____				
10 _____				
11 _____				
= Total Cover <u>60</u>				
Woody Vine Stratum (Plot size _____)				
1 _____				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2 _____				
= Total Cover				
% Bare Ground in Herb Stratum <u>15%</u>				
Remarks				

SOIL

Sampling Point

426

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 4/4							
>10	10YR 5/4							

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> 2 cm Muck (A10) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ☒

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes _____ No ☒ Depth (inches): _____Water Table Present? Yes _____ No ☒ Depth (inches): _____Saturation Present? Yes _____ No ☒ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A2Z City/County Clallam Sampling Date 3.19.10
 Applicant/Owner Morrison State WA Sampling Point 827
 Investigator(s) Ameyers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none) _____ Slope (%) 51
 Subregion (LRR) URA Lat _____ Long _____ Datum _____
 Soil Map Unit Name (12) NWI classification nc
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>/</u>	
Wetland Hydrology Present?	Yes _____ No <u>/</u>	

Remarks

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>2</u> (A) Total Number of Dominant Species Across All Strata <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC <u>100%</u> (A/B)
1				
2				
3				
4				
				Prevalence Index worksheet:
Septing/Shrub Stratum (Plot size _____)				Total % Cover of
1				OBL species x 1 =
2				FACW species x 2 = <u>60</u>
3				FAC species x 3 = <u>105</u>
4				FACU species x 4 = <u>40</u>
5				UPL species x 5 = <u>80</u>
				Column Totals <u>85</u> (A)
				Prevalence Index = B/A = <u>3.0</u>
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is >3.0 _____ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) _____ Wetland Non-Vascular Plants _____ Problematic Hydrophytic Vegetation (Explain) _____ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	<u>25</u>	<u>X</u>	<u>FAC</u>	
2	<u>20</u>	<u>X</u>	<u>FACW</u>	
3	<u>10</u>		<u>UPL</u>	
4	<u>10</u>		<u>FACW</u>	
5	<u>10</u>		<u>FAC</u>	
6	<u>10</u>		<u>FACU</u>	
7				
8				
9				
				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
Woody Vine Stratum (Plot size _____)				
1				
2				
% Bare Ground in Herb Stratum				
Remarks				

Sampling Point: K27

HYDROLOGY

Western Mountains, Valleys, and Coast – Interim Version

Project/Site A27 City/County Clallam Sampling Date 3.22.10
Applicant/Owner Morrison State _____ Sampling Point 428
Investigator(s) Myers Section, Township, Range _____
Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
Subregion (LRR) _____ Lat _____ Long _____ Datum _____
Soil Map Unit Name _____ NWI classification _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Hydrophytic Vegetation Present? Yes _____ No <u>/</u> Hydric Soil Present? Yes _____ No <u>/</u> Wetland Hydrology Present? Yes _____ No <u>/</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks	

Tree Stratum (Plot size _____)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	_____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC.	<u>2</u> (A)
2	_____	_____	_____	_____	Total Number of Dominant Species Across All Strata	<u>5</u> (B)
3	_____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC	<u>40%</u> (A/B)
4	_____	_____	_____	_____		
				= Total Cover		
Sapling/Shrub Stratum (Plot size _____)					Prevalence Index worksheet:	
1	_____	_____	_____	_____	Total % Cover of	Multiply by
2	_____	_____	_____	_____	OBL species _____	x 1 = _____
3	_____	_____	_____	_____	FACW species _____	x 2 = _____
4	_____	_____	_____	_____	FAC species _____	x 3 = _____
5	_____	_____	_____	_____	FACU species _____	x 4 = _____
				= Total Cover	UPL species _____	x 5 = _____
Herb Stratum (Plot size _____)					Column Totals	(A) _____ (B) _____
1	<u>L. Vulgare</u>	<u>40</u>	<u>X</u>	<u>UPL</u>	Prevalence Index = B/A = _____	
2	<u>D. Carota</u>	<u>25</u>	<u>X</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is ≤ 3.0 ___ 'Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) ___ Wetland Non-Vascular Plants ___ Problematic Hydrophytic Vegetation (Explain) 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic'	
3	<u>P. lanceolata</u>	<u>25</u>	<u>X</u>	<u>FACU</u>		
4	<u>H. radicata</u>	<u>25</u>	<u>X</u>	<u>FAC</u>		
5	<u>F. cubra</u>	<u>20</u>	<u>X</u>	<u>FAC</u>		
6	<u>Trifolium spp</u>	<u>10</u>		<u>FAC</u>		
7	<u>Kanunculus spp</u>	<u>10</u>		<u>FACW</u>		
8	<u>Vicia hirsuta</u>	<u>10</u>		<u>UPL</u>		
9	_____	_____	_____	_____		
10	_____	_____	_____	_____		
11	_____	_____	_____	_____		
				<u>175</u> = Total Cover		
Woody Vine Stratum (Plot size _____)					Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	
1	_____	_____	_____	_____		
2	_____	_____	_____	_____		
				= Total Cover		
% Bare Ground in Herb Stratum _____						
Remarks _____						

SOIL

Sampling Point

K28

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 4/14							
10-16	10YR 5/4		10YR 5/6	10%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Indicators for Problematic Hydric Soils ³ : <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
--	---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes _____ No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches): _____
Saturation Present?	Yes _____ No <u>X</u>	Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site A23 City/County Clallam Sampling Date 3.22.10
 Applicant/Owner Moulson State WA Sampling Point 121
 Investigator(s) Myers Section, Township, Range _____
 Landform (hillslope, terrace, etc.) _____ Local relief (concave, convex, none) _____ Slope (%) _____
 Subregion (LRR) _____ Lat _____ Long _____ Datum _____
 Soil Map Unit Name _____ NWI classification _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A)
2 _____				Total Number of Dominant Species Across All Strata <u>4</u> (B)
3 _____				Percent of Dominant Species That Are OBL, FACW, or FAC <u>25</u> (A/B)
4 _____				
				Prevalence Index worksheet:
= Total Cover				Total % Cover of _____ Multiply by _____
Sapling/Shrub Stratum (Plot size _____)				OBL species _____ x 1 = _____
1 _____				FACW species _____ x 2 = _____
2 _____				FAC species _____ x 3 = _____
3 _____				FACU species _____ x 4 = _____
4 _____				UPL species _____ x 5 = _____
5 _____				Column Totals _____ (A) _____ (B)
= Total Cover				Prevalence Index = B/A = _____
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators:
1 <u>H. vulgare</u>	<u>30</u>	<u>X</u>	<u>UPL</u>	— Dominance Test is >50%
2 <u>D. carota</u>	<u>20</u>	<u>X</u>	<u>UPL</u>	— Prevalence Index is >3.0
3 <u>P. lanceolata</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	— Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4 _____				— Wetland Non-Vascular Plants
5 <u>H. radicata</u>	<u>15</u>		<u>FAC</u>	— Problematic Hydrophytic Vegetation (Explain)
6 <u>E. rubra</u>	<u>20</u>	<u>X</u>	<u>FAC</u>	— Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7 <u>Trifolium spp</u>	<u>15</u>		<u>FAC</u>	
8 <u>V. hirsuta</u>	<u>15</u>		<u>UPL</u>	
9 _____				
10 _____				
11 _____				
= Total Cover				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
Woody Vine Stratum (Plot size _____)				
1 _____				
2 _____				
= Total Cover				
% Bare Ground in Herb Stratum <u>10%</u>				
Remarks				

SOIL

Sampling Point: K22

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-10	10YR 4/4							
5-10	10YR 4/3		10YR 5/2	7.1				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)
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Secondary Indicators (2 or more required)

<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)
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Field Observations:

Surface Water Present?	Yes _____ No _____	Depth (inches): _____
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches): <u>13</u>
Saturation Present?	Yes <u>X</u> No _____	Depth (inches): <u>10</u>

(includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.

Remarks